

Manufacturer Disclosure Statement for Medical Device Security -- MDS2

 Vital Images A/S
 EasyViz 8.2
 2021.03.017
 31-Mar-2021

	Oversking		See mate
Question ID	Question		See note
DOC-1	Manufacturer Name	Vital Images A/S	_
DOC-2	Device Description	Software	_
DOC-3	Device Model	EasyViz 8.2	_
DOC-4	Document ID	2021.03.017	_
	Name of the state	Krumtappen 4, Etage 3, 2500 Valby,	
DOC-5	Manufacturer Contact Information Intended use of device in network-connected	Denmark Marcel Lantinga	_
DOC-6	environment:	See Notes	Note 22
DOC-6 DOC-7	Document Release Date	31-03-2021	
DOC-7	Coordinated Vulnerability Disclosure: Does the	31 03 2021	· —
	manufacturer have a vulnerability disclosure		
DOC-8	program for this device?	Yes	
	ISAO: Is the manufacturer part of an Information		_
DOC-9	Sharing and Analysis Organization?	No	_
	Diagram: Is a network or data flow diagram available		
	that indicates connections to other system		
DOC-10	components or expected external resources?	Yes	_
	SaMD: Is the device Software as a Medical Device		
DOC-11	(i.e. software-only, no hardware)?	Yes	_
DOC-11.1	Does the SaMD contain an operating system?	No	_
	Does the SaMD rely on an owner/operator provided		
DOC-11.2	operating system?	Yes	_
	Is the SaMD hosted by the manufacturer?		
DOC-11.3		No	
DOC-11.4	Is the SaMD hosted by the customer?	Yes	_
	•		
		Yes, No,	
		N/A, or	
		See Note	Note #
	MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION		
	Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic		
MPII-1	Protected Health Information (ePHI))?	Yes	
IVIFII-I	Does the device maintain personally identifiable	163	_
MPII-2	information?	No	
	Does the device maintain personally identifiable		
	information temporarily in volatile memory (i.e.,		
MPII-2.1	until cleared by power-off or reset)?	Yes	_
	Does the device store personally identifiable		
MPII-2.2	information persistently on internal media?	Yes	
	Is personally identifiable information preserved in		
MPII-2.3	the device's non-volatile memory until explicitly	No	Note 23
	Does the device store personally identifiable	V	
MPII-2.4	information in a database?	Yes	_
	Does the device allow configuration to automatically delete local personally identifiable information after		
MPII-2.5	it is stored to a long term solution?	No	
2.3	Does the device import/export personally		_
	identifiable information with other systems (e.g., a		
	wearable monitoring device might export personally		
MPII-2.6	identifiable information to a server)?	Yes	_
	Does the device maintain personally identifiable		
	information when powered off, or during power		
MPII-2.7	service interruptions?	Yes	_
	Does the device allow the internal media to be		
	removed by a service technician (e.g., for separate		
MPII-2.8	destruction or customer retention)?	Yes	_
	Does the device allow personally identifiable		
	information records be stored in a separate location from the device's operating system (i.e. secondary		
	from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote		
MPII-2.9	storage location)?	Yes	
11 2.3	Does the device have mechanisms used for the		
	transmitting, importing/exporting of personally		
MPII-3	identifiable information?	Yes	_
	Does the device display personally identifiable		
MPII-3.1	information (e.g., video display, etc.)?	Yes	_
	Does the device generate hardcopy reports or		
MPII-3.2	images containing personally identifiable	Yes	_

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	Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable-		
MPII-3.3	HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)?	Yes	_
	Does the device transmit/receive or import/export personally identifiable information via dedicated		
MPII-3.4	cable connection (e.g., RS-232, RS-423, USB, FireWire, etc.)?	No	_
	Does the device transmit/receive personally identifiable information via a wired network	West	
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)? Does the device transmit/receive personally identifiable information via a wireless network	Yes	_
MPII-3.6	connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	Yes	Inherited from customer network configuration
	Does the device transmit/receive personally identifiable information over an external network		
MPII-3.7	(e.g., Internet)? Does the device import personally identifiable	Yes	Inherited from customer network configuration
MPII-3.8	information via scanning a document? Does the device transmit/receive personally	No	
MPII-3.9	identifiable information via a proprietary protocol? Does the device use any other mechanism to	Yes	
MPII-3.10	transmit, import or export personally identifiable information?	Yes	Note 20
Management of Priv			
	AUTOMATIC LOGOFF (ALOF)		
	The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.		
	Can the device be configured to force reauthorization of logged-in user(s) after a		
ALOF 1	predetermined length of inactivity (e.g., auto-logoff,	Voc	
ALOF-2	session lock, password protected screen saver)? Is the length of inactivity time before auto-	Yes	_
ALOF-Z	logoff/screen lock user or administrator	Yes	_
	AUDIT CONTROLS (AUDT)		
	The ability to reliably audit activity on the device.		
	Can the medical device create additional audit logs		
AUDT-1	or reports beyond standard operating system logs? Does the audit log record a USER ID?	Yes Yes	_
AUDT-1.1	Does other personally identifiable information exist	165	_
AUDT-1.2	in the audit trail?	Yes	
	Are events recorded in an audit log? If yes, indicate		
ALIDT 2	which of the following events are recorded in the	Vos	
AUDT-2 AUDT-2.1	audit log: Successful login/logout attempts?	Yes Yes	_
AUDT-2.2	Unsuccessful login/logout attempts?	Yes	_
AUDT-2.3	Modification of user privileges?	No	_
AUDT-2.4	Creation/modification/deletion of users?	No	
AUDT-2.5	Presentation of clinical or PII data (e.g. display,	Yes	_
AUDT-2.6	Creation/modification/deletion of data?	Yes	_
	Import/export of data from removable media (e.g.		
AUDT-2.7	USB drive, external hard drive, DVD)?	Yes	_
	Receipt/transmission of data or commands over a	V	
AUDT-2.8	network or point-to-point connection?	Yes	_
AUDT-2.8.1	Remote or on-site support? Application Programming Interface (API) and similar	No	_
AUDT-2.8.2	Application Programming Interface (API) and similar activity?	No	
AUDT-2.8.2 AUDT-2.9	Emergency access?	No	_
AUDT-2.10	Other events (e.g., software updates)?	Yes	_
AUDT-2.11	Is the audit capability documented in more detail?	See Notes	Note 1
	Can the owner/operator define or select which		
AUDT-3	events are recorded in the audit log?	No	
- -	Is a list of data attributes that are captured in the		
AUDT-4	audit log for an event available?	See Notes	Note 2
AUDT-4.1	Does the audit log record date/time?	Yes	_
	Can date and time be synchronized by Network Time		
AUDT-4.1.1	Protocol (NTP) or equivalent time source?	Yes	_

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AUDT-5	Can audit log content be exported?	See Notes	Note 3
AUDT-5.1	Via physical media?	Yes	_
	Via IHE Audit Trail and Node Authentication (ATNA)		
AUDT-5.2	profile to SIEM?	See Notes	Note 4
	Via Other communications (e.g., external service		
AUDT-5.3	device, mobile applications)?	No	_
	Are audit logs encrypted in transit or on storage		
AUDT-5.4	media?	Yes	_
	Can audit logs be monitored/reviewed by		
AUDT-6	owner/operator?	See Notes	Note 5
AUDT-7	Are audit logs protected from modification?	Yes	
AUDT-7.1	Are audit logs protected from access?	Yes	
AUDT-8	Can audit logs be analyzed by the device?	No	

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AUTHORIZATION (AUTH)

The ability of the device to determine the authorization of users.

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	Does the device prevent access to unauthorized		
	users through user login requirements or other		
AUTH-1	mechanism?	Yes	_
	Can the device be configured to use federated		
	credentials management of users for authorization		
AUTH-1.1	(e.g., LDAP, OAuth)?	Yes	_
	Can the customer push group policies to the device		
AUTH-1.2	(e.g., Active Directory)?	See Notes	Note 6
	Are any special groups, organizational units, or group		
AUTH-1.3	policies required?	Yes	_
	Can users be assigned different privilege levels based		
	on 'role' (e.g., user, administrator, and/or service,		
AUTH-2	etc.)?	Yes	_
	Can the device owner/operator grant themselves		
	unrestricted administrative privileges (e.g., access		
	operating system or application via local root or		
AUTH-3	administrator account)?	Yes	_
	Does the device authorize or control all API access		
AUTH-4	requests?	See Notes	Note 7
	Does the device run in a restricted access mode, or		
AUTH-5	'kiosk mode', by default?	No	_

CYBER SECURITY PRODUCT UPGRADES (CSUP)

The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.

	device's security patches.		
	Does the device contain any software or firmware		
	which may require security updates during its		
	operational life, either from the device manufacturer		
	or from a third-party manufacturer of the		
	software/firmware? If no, answer "N/A" to		
CSUP-1	questions in this section.	Yes	_
	Does the device contain an Operating System? If yes,		
CSUP-2	complete 2.1-2.4.	Yes	_
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-2.1	software updates?	Yes	_
	Does the device require vendor or vendor-		
CSUP-2.2	authorized service to install patches or software	No	_
	Does the device have the capability to receive		
CSUP-2.3	remote installation of patches or software updates?	Yes	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-2.4	manufacturer?	Yes	_
	Does the device contain Drivers and Firmware? If		
CSUP-3	yes, complete 3.1-3.4.	No	Note 24
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-3.1	software updates?	N/A	_
	Does the device require vendor or vendor-		
CSUP-3.2	authorized service to install patches or software	N/A	_
	Does the device have the capability to receive		
CSUP-3.3	remote installation of patches or software updates?	N/A	_

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	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-3.4	manufacturer?	N/A	
	Does the device contain Anti-Malware Software? If	,	_
CSUP-4	yes, complete 4.1-4.4.	No	
	Does the device documentation provide instructions		_
	for owner/operator installation of patches or		
CSUP-4.1	software updates?	N/A	
C30F-4.1	Does the device require vendor or vendor-	14/14	_
CSUP-4.2	authorized service to install patches or software	N/A	
C30F-4.2	Does the device have the capability to receive	14/14	_
CSUP-4.3	remote installation of patches or software updates?	N/A	
C30F -4.3	Does the medical device manufacturer allow security		_
	updates from any third-party manufacturers (e.g.,		
CCLID 4.4	Microsoft) to be installed without approval from the manufacturer?	NI/A	
CSUP-4.4		N/A	_
	Does the device contain Non-Operating System		
00115 5	commercial off-the-shelf components? If yes,	Mari	
CSUP-5	complete 5.1-5.4.	Yes	_
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-5.1	software updates?	See Notes	Note 8
	Does the device require vendor or vendor-	.,	
CSUP-5.2	authorized service to install patches or software	Yes	_
	Does the device have the capability to receive		
CSUP-5.3	·	Yes	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-5.4	manufacturer?	Yes	_
	Does the device contain other software components		
	(e.g., asset management software, license		
	management)? If yes, please provide details or		
CSUP-6	refernce in notes and complete 6.1-6.4.	No	_
	Does the device documentation provide instructions		
	for owner/operator installation of patches or		
CSUP-6.1	software updates?	N/A	_
	Does the device require vendor or vendor-		
CSUP-6.2	authorized service to install patches or software	N/A	_
	Does the device have the capability to receive		
CSUP-6.3	remote installation of patches or software updates?	N/A	_
	Does the medical device manufacturer allow security		
	updates from any third-party manufacturers (e.g.,		
	Microsoft) to be installed without approval from the		
CSUP-6.4	manufacturer?	N/A	_
	Does the manufacturer notify the customer when		
CSUP-7	updates are approved for installation?	See Notes	Note 9
	Does the device perform automatic installation of		
CSUP-8	software updates?	See Notes	Note 10
	Does the manufacturer have an approved list of third		
CSUP-9	party software that can be installed on the device?	No	_
	Can the owner/operator install manufacturer-		
	approved third-party software on the device		
CSUP-10	themselves?	Yes	_
	Does the system have mechanism in place to prevent		
CSUP-10.1	installation of unapproved software?	No	_
	Does the manufacturer have a process in place to		
CSUP-11	assess device vulnerabilities and updates?	Yes	_
	Does the manufacturer provide customers with		
CSUP-11.1	review and approval status of updates?	No	_
CSUP-11.2	Is there an update review cycle for the device?	No	_
	· · · · · · · · · · · · · · · · · · ·		

HEALTH DATA DE-IDENTIFICATION (DIDT)

The ability of the device to directly remove information that allows identification of a person.

Does the device provide an integral capability to deidentify personally identifiable information?

Does the device support de-identification profiles that comply with the DICOM standard for de-DIDT-1.1 identification?

Yes ___
See Notes Note 11

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DTRK-1

DTBK-2

DTBK-3

DTBK-5

EMRG-1

IGAU-1

IGAU-2

MLDP-1

MLDP-2

MLDP-2.1

MLDP-2.6

MLDP-3

MLDP-4

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DATA BACKUP AND DISASTER RECOVERY (DTBK)

The ability to recover after damage or destruction of device data, hardware, software, or site

configuration information.

Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?

Does the device have a "factory reset" function to

restore the original device settings as provided by the manufacturer?

Does the device have an integral data backup capability to removable media?

Does the device have an integral data backup

Capability to remote storage?

Does the device have a backup capability for system

configuration information, patch restoration, and software restoration?

Does the device provide the capability to check the

DTBK-6 integrity and authenticity of a backup?

No ___

No ____

No __

EMERGENCY ACCESS (EMRG)

The ability of the device user to access personally identifiable information in case of a medical emergency situation that requires immediate access to stored personally identifiable information.

Does the device incorporate an emergency access (i.e. "break-glass") feature?

HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)

How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized manner and is from the originator.

Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)?

Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g.,

RAID-5)?

No

N/A __

MALWARE DETECTION/PROTECTION (MLDP)

The ability of the device to effectively prevent, detect and remove malicious software (malware).

Is the device capable of hosting executable Does the device support the use of anti-malware software (or other anti-malware mechanism)?

Provide details or reference in notes.

Does the device include anti-malware software by default?

Does the device have anti-malware software

MLDP-2.2 available as an option?

Does the device documentation allow the owner/operator to install or update anti-malware

MLDP-2.3 software?
Can the device owner/operator independently (re-MLDP-2.4)configure anti-malware settings?

Does notification of malware detection occur in the
MLDP-2.5 device user interface?
Can only manufacturer-authorized persons repair

MLDP-2.7 Are malware notifications written to a log?
Are there any restrictions on anti-malware (e.g.,
MLDP-2.8 purchase, installation, configuration, scheduling)?
If the answer to MLDP-2 is NO, and anti-malware

cannot be installed on the device, are other compensating controls in place or available?

Does the device employ application whitelisting that restricts the software and services that are permitted to be run on the device?

systems when malware has been detected?

 Yes
 __

 See Notes
 Note 12

 No
 __

 No
 __

No ___

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MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	See Notes	Note 13	
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	Yes		
	Can a host-based intrusion detection/prevention			
MLDP-5.2	system be installed by the customer?	Yes	_	
	NODE AUTHENTICATION (NAUT)			
	The ability of the device to authenticate			
	communication partners/nodes. Does the device provide/support any means of node			
	authentication that assures both the sender and the			
	recipient of data are known to each other and are authorized to receive transferred information (e.g.			
NAUT-1	Web APIs, SMTP, SNMP)?	Yes	_	
	Are network access control mechanisms supported		_	
	(E.g., does the device have an internal firewall, or	N.		
NAUT-2	use a network connection white list)? Is the firewall ruleset documented and available for	No	_	
NAUT-2.1	review?	N/A	_	
	Does the device use certificate-based network			
NAUT-3	connection authentication?	No	_	
	CONNECTIVITY CAPABILITIES (CONN)			
	All network and removable media connections must be considered in determining appropriate security			
	controls. This section lists connectivity capabilities			
	that may be present on the device.			
CONN 1	Does the device have hardware connectivity	Yes	Note 27	
CONN-1 CONN-1.1	capabilities? Does the device support wireless connections?	Yes	Note 27	
CONN-1.1.1	Does the device support Wi-Fi?	Yes		
CONN-1.1.2	Does the device support Bluetooth?	No	_	
CONN 4.4.2	Does the device support other wireless network	No		
CONN-1.1.3	connectivity (e.g. LTE, Zigbee, proprietary)? Does the device support other wireless connections	No	_	
CONN-1.1.4	(e.g., custom RF controls, wireless detectors)?	No	_	
CONN-1.2	Does the device support physical connections?	Yes	_	
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	Yes	_	
CONN-1.2.2	Does the device have available USB ports? Does the device require, use, or support removable	Yes	_	
CONN-1.2.3	memory devices?	Yes	_	
CONN-1.2.4	Does the device support other physical connectivity?		_	
	Does the manufacturer provide a list of network			
CONN-2	ports and protocols that are used or may be used on the device?	Yes		
COMM-2	Can the device communicate with other systems	163	_	
CONN-3	within the customer environment?	Yes	_	
	Can the device communicate with other systems			
CONN-4	external to the customer environment (e.g., a service host)?	Yes		
CONN-5	Does the device make or receive API calls?	Yes	_	
	Does the device require an internet connection for			
CONN-6	its intended use?	No	_	
CONN-7	Does the device support Transport Layer Security (TLS)?	Yes		
CONN-7.1	Is TLS configurable?	Yes	_	
	Does the device provide operator control			
	functionality from a separate device (e.g.,			
CONN-8	telemedicine)?	Yes	_	
	PERSON AUTHENTICATION (PAUT)			
	The ability to configure the device to authenticate			
	users. Does the device support and enforce unique IDs and			
	passwords for all users and roles (including service			
PAUT-1	accounts)?	Yes	_	
	Does the device enforce authentication of unique IDs			
DALIT 1 1	and passwords for all users and roles (including service accounts)?	Yes		
PAUT-1.1	service accounts;	103	_	

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	Is the device configurable to authenticate users		
	through an external authentication service (e.g., MS		
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	Yes	_
	Is the device configurable to lock out a user after a		
PAUT-3	certain number of unsuccessful logon attempts?	No	Note 25
	Are all default accounts (e.g., technician service		
PAUT-4	accounts, administrator accounts) listed in the documentation?	Yes	
PAUT-5	Can all passwords be changed?	Yes	_
	Is the device configurable to enforce creation of user		_
	account passwords that meet established		
PAUT-6	(organization specific) complexity rules?	See Notes	Note 14
	Does the device support account passwords that	No	Note 44
PAUT-7	expire periodically? Does the device support multi-factor authentication?	No No	Note 14
PAUT-8 PAUT-9	Does the device support single sign-on (SSO)?	Yes	
PAUT-10	Can user accounts be disabled/locked on the device?		Note 25
PAUT-11	Does the device support biometric controls?	No	_
	Does the device support physical tokens (e.g. badge		
PAUT-12	access)?	No	_
	Does the device support group authentication (e.g.		
PAUT-13	hospital teams)?	No	_
PAUT-14	Does the application or device store or manage authentication credentials?	See Notes	Note 15
PAUT-14.1	Are credentials stored using a secure method?	See Notes	Note 15
.,,,,,,			
	PHYSICAL LOCKS (PLOK)		
	Physical locks can prevent unauthorized users with		
	physical access to the device from compromising the		
	integrity and confidentiality of personally identifiable		
	information stored on the device or on removable		
	media Is the device software only? If yes, answer "N/A" to		
PLOK-1	remaining questions in this section.	Yes	
TEOR	Are all device components maintaining personally	···cs	_
	identifiable information (other than removable		
	media) physically secure (i.e., cannot remove		
PLOK-2	without tools)?	N/A	_
	Are all device components maintaining personally		
	identifiable information (other than removable		
PLOK-3	media) physically secured behind an individually keyed locking device?	N/A	
I LOK 5	Does the device have an option for the customer to		_
	attach a physical lock to restrict access to removable		
PLOK-4	media?	N/A	_
	DOADAAD FOR TUIDD DADTY COMPONITATE IN		
	ROADMAP FOR THIRD PARTY COMPONENTS IN		
	DEVICE LIFE CYCLE (RDMP)		
	Manufacturer's plans for security support of third- party components within the device's life cycle.		
	Was a secure software development process, such as		
	ISO/IEC 27034 or IEC 62304, followed during product		
RDMP-1	development?	Yes	_
	Does the manufacturer evaluate third-party		
	applications and software components included in		
RDMP-2	the device for secure development practices?	Yes	_
	Does the manufacturer maintain a web page or		
RDMP-3	other source of information on software support dates and updates?	Yes	
KDIVIF-3	Does the manufacturer have a plan for managing	163	_
RDMP-4	third-party component end-of-life?	Yes	_
	SOFTWARE BILL OF MATERIALS (SBoM)		
	A Software Bill of Material (SBoM) lists all the		
	software components that are incorporated into the		
	device being described for the purpose of		
	operational security planning by the healthcare delivery organization. This section supports controls		
	in the RDMP section.		
SBOM-1	Is the SBoM for this product available?	Yes	_
	•		

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	Does the SBoM follow a standard or common		
SBOM-2	method in describing software components?	Yes	_
SBOM-2.1	Are the software components identified?	Yes	_
	Are the developers/manufacturers of the software		
SBOM-2.2	components identified?	Yes	_
	Are the major version numbers of the software		
SBOM-2.3	components identified?	Yes	_
SBOM-2.4	Are any additional descriptive elements identified?	Yes	_
	Does the device include a command or process		
	method available to generate a list of software		
SBOM-3	components installed on the device?	No	_
SBOM-4	Is there an update process for the SBoM?	Yes	_
	SYSTEM AND APPLICATION HARDENING (SAHD)		
	The device's inherent resistance to cyber attacks and		
	malware.		
	Is the device hardened in accordance with any		
SAHD-1	industry standards?	No	
JAIID-I	Has the device received any cybersecurity	NO	_
SAHD-2	certifications?	No	
SATID-2	Does the device employ any mechanisms for	NO	_
SAHD-3	software integrity checking	Yes	
SAIID-S	Does the device employ any mechanism (e.g.,	163	_
	release-specific hash key, checksums, digital		
	signature, etc.) to ensure the installed software is		
SAHD-3.1	manufacturer-authorized?	No	
3A11D 3.1	Does the device employ any mechanism (e.g.,	110	_
	release-specific hash key, checksums, digital		
	signature, etc.) to ensure the software updates are		
SAHD-3.2	the manufacturer-authorized updates?	No	
3/11/2 3.2	Can the owner/operator perform software integrity		_
	checks (i.e., verify that the system has not been		
SAHD-4	modified or tampered with)?	See Notes	Note 16
57.11.15	Is the system configurable to allow the		
	implementation of file-level, patient level, or other		
SAHD-5	types of access controls?	No	_
SAHD-5.1	Does the device provide role-based access controls?	Yes	_
	Are any system or user accounts restricted or		_
SAHD-6	disabled by the manufacturer at system delivery?	No	_
	Are any system or user accounts configurable by the		
SAHD-6.1	end user after initial configuration?	Yes	_
	Does this include restricting certain system or user		
	accounts, such as service technicians, to least		
SAHD-6.2	privileged access?	See Notes	Note 21
	Are all shared resources (e.g., file shares) which are		
	not required for the intended use of the device		
SAHD-7	disabled?	Yes	_
	Are all communication ports and protocols that are		
	not required for the intended use of the device		
SAHD-8	disabled?	Yes	_
	Are all services (e.g., telnet, file transfer protocol		
	[FTP], internet information server [IIS], etc.), which		
	are not required for the intended use of the device		
SAHD-9	deleted/disabled?	Yes	_
	Are all applications (COTS applications as well as OS-		
	included applications, e.g., MS Internet Explorer,		
	etc.) which are not required for the intended use of		
SAHD-10	the device deleted/disabled?	No	_
	Can the device prohibit boot from uncontrolled or		
	removable media (i.e., a source other than an		
SAHD-11	internal drive or memory component)?	N/A	_
CALID 43	Can unauthorized software or hardware be installed	Vos	
SAHD-12	on the device without the use of physical tools?	Yes	_
CALID 43	Does the product documentation include	No	
SAHD-13	information on operational network security	No	_
CALIDIAA	Can the device be hardened beyond the default	Van	
SAHD-14	provided state?	Yes	_
CAUD 444	Are instructions available from vendor for increased	No	
SAHD-14.1	hardening?	No	
CHAD 15	Can the system prevent access to BIOS or other	NI/A	
SHAD-15	bootloaders during boot? Have additional hardening methods not included in	N/A	
CAUD 16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	
SAHD-16	2.3.13 Deen used to natural the device?	NO	_

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SECURITY GUIDANCE (SGUD)

Availability of security guidance for operator and administrator of the device and manufacturer sales and service.

Does the device include security documentation for the owner/operator?

Does the device have the capability, and provide instructions, for the permanent deletion of data

instructions, for the permanent deletion of data
SGUD-2 from the device or media?

SGUD-3 Are all access accounts documented?
Can the owner/operator manage password control
SGUD-3.1 for all accounts?
Does the product include documentation on
SGUD-4 recommended compensating controls for the

 Yes
 Note 26

 No
 __

 Yes
 __

 Yes
 __

HEALTH DATA STORAGE CONFIDENTIALITY (STCF)

The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media.

STCF-1 Can the device encrypt data at rest?
STCF-1.1 Is all data encrypted or otherwise protected?
Is the data encryption capability configured by
STCF-1.2 default?
Are instructions available to the customer to

STCF-1.3 configure encryption?
STCF-2 Can the encryption keys be changed or configured?
Is the data stored in a database located on the
STCF-3 device?
Is the data stored in a database external to the
STCF-4 device?

TXCF-1

TXCF-2

TXCF-2.1

TXCF-3

TXCF-4

TXCF-5

TXIG-1

TXIG-2

No ___
No
No
No
No
No
N/A ___

Yes Note 17
Yes Note 17

TRANSMISSION CONFIDENTIALITY (TXCF)

of transmitted personally identifiable information.

Can personally identifiable information be transmitted only via a point-to-point dedicated Is personally identifiable information encrypted prior to transmission via a network or removable media? If data is not encrypted by default, can the customer configure encryption options? Is personally identifiable information transmission restricted to a fixed list of network destinations?

The ability of the device to ensure the confidentiality

configure encryption options?

Is personally identifiable information transmission restricted to a fixed list of network destinations?

Are connections limited to authenticated systems?

Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?

See Notes

Note 19

TRANSMISSION INTEGRITY (TXIG)

The ability of the device to ensure the integrity of transmitted data.

Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission?

Does the device include multiple sub-components connected by external cables?

Yes Note 19
Yes __

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	Is there an indicator for an enabled and active	
RMOT-1.2	remote session?	N/A
	Can patient data be accessed or viewed from the	
RMOT-1.3	device during the remote session?	Yes
	Does the device permit or use remote service	
RMOT-2	connections for predictive maintenance data?	Yes
	Does the device have any other remotely accessible	
RMOT-3	functionality (e.g. software updates, remote	No

OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

Notes:

	Notes:
Note 1	The audit trail follows the IHE ATNA profile
Note 2	The attributes captured in audit records are
	documented in DICOM PS 3.15 section A.5.3 "DICOM
	Specific Audit Messages"
Note 3	EasyViz can be configured to use a compliant
	external Audit Record Repository. This is
	recommended. The builtin Audit Record Repository
	stores the original XML audit messages in a DB2
	database table and they can be exported using
Note 4	Audit messages can be routed via syslog RFC-3164 or
	RC-5424 with TLS encryption as per the IHE ATNA
Note F	profile
Note 5	Audit messages can only be viewed by owner/operator when using the builtin Audit Record
	Repository. The recommendation is to use an
	external ARR.
Note 6	User privileges can be controlled via Active Directory
	groups
Note 7	A few select API end points are deliberately
	unauthenticated. For instance to allow uploading
	client logs.
Note 8	The COTS libraries shipped with EasyViz are updated
	with EasyViz releases and hotfixes. Updates of the
	(DB2) database are handled by Vital Images CS
	engineers.
Note 9	OS level updates are generally allowed
Note 10	OS updates are not automatically triggered, but it
	only requires a single command to install all available updates.
Note 11	Compliance with the DICOM standard for de-
	identification has not been verified, but said
	standard has been the guideline for the
Note 12	The customer may on request receive permission to
	install anti-malware software on the servers that run
	EasyViz
Note 13	The RHEL/CentOS OS provides mechanisms that can
	be configured. The EasyViz clients are installed on
	the customers PCs as normal unprivileged Windows
	applications. The security of these PCs is the
N-+- 14	responsibility of the customer.
Note 14	The system does not enforce any organizationally set
	password policy for complexity or expiration when configured to use local users. When configured to
	use Active Directory (the norm) the password policy
	is managed by Active Directory. Users cannot change
	their password via EasyViz.
Note 15	EasyViz stores credentials for locally created users,
	but not for Active Directory users.
Note 16	The software is installed via MSIs on Windows and
	via RPMs on Linux. The "rpm -V" can be used to
	check whether the installation has been tampered
	with, but there is no protection aganist tampering
	with the rpm database itself.
Note 17	It is possible to use both a database managed as part
	of EasyViz and an external database.

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Note 20

Note 18 Image retrieval is possible from external

unauthenticated sources. The EasyViz integration
APIs is flexible and could be used to communicate
with unauthenticated sources. EasyViz itself does not

provide unauthenticated access.

Note 19 All external systems accessed using the HTTP

protocol can be configured to use TLS (HTTPS).

DICOM image retrieval over TLS is not supported.

EasyViz receives and transmits personally identifiable

information via the DICOM protocol.

Note 21 Many administrative tasks can be managed via the

graphical user interface. Advanced tasks such as software upgrades and daemon configuration requires shell access. Shell access comes in only two levels - miaccess which can only view and root which

has full unrestricted access.

Note 22 EasyViz PACS system is a Diagnostic Softcopy Reading

software package to be used for primary diagnosis and clinical review of digital radiology images

(including digital breast

tomosynthesis/mammography). EasyViz allows diagnostic viewing of fused dual modality studies in a

single view.

EasyViz software is indicated for use by qualified healthcare professionals including, but not restricted to, radiologists, non-radiology specialists, physicians

and technologists.

The product interfaces to existing imaging equipment using the DICOM standard

communication protocol.

When viewing mammographic images and other medical images for diagnostic purposes the display monitors used must meet technical specifications and comply with the applicable country specific regulatory approvals and quality requirements. Lossy compressed mammographic images and digitized film screen images must not be reviewed for primary

image interpretations.

EasyViz does not permanently store or produce original medical images or use irreversible

compression methods.

EasyViz is not intended to be used on tablets and

smartphones.

Note 23 EasyViz does not store patient or image related information in its own database. Only settings and

preferences are stored. If EasyViz is not configured with Active Directory, EasyViz also has information stored about users in its users database. If the deprecated EasyViz Audit Record Repository is used the audit database will contain information such as

patient IDs and user account names

Note 24 EasyViz is installed on servers, physical or virtual, acquired by the customer. The servers run

CenOS/RHEL and maintenance is done according to normal best practices. The operating system is not

part of the product.

Note 25 The standard enterprise deployment configuration

uses Active Directory, which may be configured to

lock out users after a number of failed

authentication attempts and which also has UI to

disable user accounts.

Note 26 The relevant documents are " EasyViz Administration

Guide" and "EasyViz Security Manual"

Note 27 EasyViz is software and the server installations

typically run on servers with wired ethernet. Client installations run on Windows PCs which can have any kind of network connectivity - wired and wireless

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